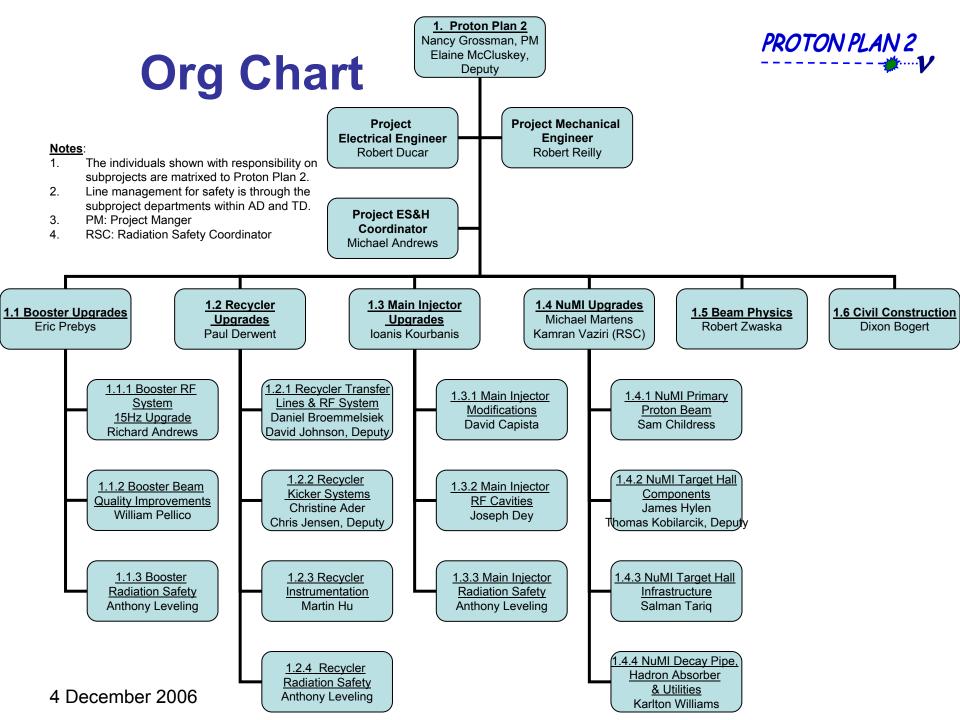


Outline



- Action Items
- PP2 Progress [Nancy/Elaine]
 - Org Chart Update
 - FY07 Budget/Plans Discussion
 - FY08 Summer Shutdown
 - Overall cost Reduction Status
 - Funding Profile Status & Fund Types
 - Cost Accounts
 - GPP (New Start and Funding)
- SNuMI Status
 - Strategy Comparison Table [Nancy]
 - Campaign/MIE Project/Line Item Project? [All]





FY07 Budget



FY07 Budget from Bruce: \$1.2M (M&S only)

| WBS | Name | Items | FY07\$ |
|-----|------------------------|---|-------------|
| 1.2 | Recycler Upgrades | Permanent Magnet Work (\$15K) & Kickers ((\$303K) | \$432,083 |
| 1.3 | Main Injector Upgrades | RR low level RF work | \$57,868 |
| 1.4 | NuMI Upgrades | ME target, cooling R&D, remote work development | \$64,577 |
| 1.5 | Beam Physics | Electron cloud measurements in MI & RR | \$36,101 |
| 1.6 | Civil Construction | Work for penetrations in FY07. | \$714,425 |
| | | Total (this is work in progress) | \$1,305,054 |

- Civil outside work for FY07came in significantly over estimate
 - Working on a compromise (do less design work in FY07 than wished)
 - Look to cut ~\$60K from Civil
- Look to cut ~\$40K elsewhere (MI LL RF, NuMI, Beam Physics)



FY07 Budget – FY08 Shutdown



- Need shutdowns for PP2 civil construction work for:
 - Excavation & installation of penetrations at MI14/39 tunnel locations
 - Excavation & installation of building foundations within or near shielding envelope
 - Installation of utilities (ICW, comm/power ductbanks, power cable) across berms
- Desirable to do all this during FY07 shutdown, <u>but</u>
 - to minimize FY07 M&S and spread schedule risk during shutdown over more time,
 - would like to do cable installation, particularly from MI8 to MI14, during FY08 shutdown.
- Need to know how to plan work in order to properly write GPP CDR for approval in January.



Overall cost Reduction Status PROTON PLAN 2



- Done, but not checked:
 - Nearly done separating out spares
 - Need to check and sum costs (with and without spares)
 - Replaced new quads in NuMI beamline with existing ones
 - Added new profile monitors
 - Made NuMI items more "realistic" New items replaced with minor modifications to existing equipment
 - Saves M&S
 - Minimizes radioactive components needed to store
 - Increases work required during the shutdown as must remove component, then modify in the workcell, then re-install vs. simply replacing with a new component
 - This increased work is probably not real as if we made new modules, we would have a lot of work compacting and removing the old modules



Overall cost Reduction Status PROTON PLAN 2



- In progress or still to do:
 - Changes due to beamline optimization
 - Need to verify/review changes first
 - One less kicker prototype
 - A new Lambertson magnet
 - Less mirror magnets?
- Presently:
 - Total escalated obligations: \$20M
 - Total burdened escalated obligations: \$23.1M (no cont.)
 - This is below \$24M escalated, burdened number from DOE

So are we OK?



Funding Profile



- Have more or less sufficiently delayed tasks from FY07 to FY08
- Delaying M&S tasks from FY08 to FY09
 - Mostly done needs checking
 - Fixing links, clarifying tasks (mostly in the NuMI portion)
 - Changing WBS structure at lower levels
 - Balancing management WBS structure vs. cost accounting WBS structure
- Once we settle the M&S FY08 to FY09 delays, will look at FY09 to FY10 delays of M&S
 - Mainly NuMI
- Will need to then look at labor profiles too and see re-level
- Probably only get the M&S delays done and QA'd a bit for the January profile
 - We will only have had a chance to look at the labor profile a bit at that point and not get to level too much, depending on when in January this is needed



Funding Profile for DOE



 Developing funding profile based on these DOE fund types that relate to Fermilab Service Types

| SERVICE TYPE | DOE FUND TYPE | |
|---------------------------|---|--|
| OP-EXST PRGM OP-ACCEL | Operating (general studies, analysis, decommissioning) | |
| EQ-EXST PRGM SUPP-ACCEL | General Equipment (includes design, fabrication & installation) | |
| PL-EXST PRGM SUPP-GPP | Plant (civil work) | |
| OP-EXST PRGM OP R&D-ACCEL | R&D (prototype design, fab., test) | |
| OP-INV-SPARES | Inv (is this req'd since spares are off the campaign?) | |

- Assumed to include labor and M&S
- Need goal date by which this is required
- Would like input as to how this profile is going to be used



Other Budget Items



- For items like NuMI Module modifications where the modifications are ~\$100K (most likely what we will do) and a new module (may have to do) is ~\$350K (M&S):
 - Do we put in a huge contingency to cover this possibility?
 - Hard to say how likely the new module option is at this point
 - How is this handled?
- Working with Ann and Barbara to set up cost accounts
 - Goal is late January
- GPP (New Start and Funding) Discussion



SNuMI Status



- SNuMI Alternatives
 - Talked to Dave M. about NuMI alternatives, outcome of discussion:
 - He will write a document that compares and contrasts the technical merits and difficulties of the three different options for providing beam powers greater than 1 MW for a 120 GeV proton beam
 - Slip stacking 18 batches in the Recycler
 - Momentum stacking in the Accumulator
 - Proton Driver.
 - loanis will help
 - Will get input on the Proton Driver from Proton Driver management (most likely Bob Webber).
 - Goal to complete the document by the end of the year (2006).
- Campaign/MIE Project/Line Item Project? [All]
 - When need to get something to Mike for CD0 if we plan to do something SNuMI-like?



SNuMI Timeline as Project (Line Item)



Line Item Project: Complete 12/12

